

## Author Index to Volume 182

- Abakumov, G.A., V.B. Kolovsky, B.I. Polyakov and A.P. Simonov, Geminate and volume electron-cation recombination in a polyatomic buffer gas 182 (1991) 321
- Achiba, Y., see S. Suzuki 182 (1991) 12
- Adachi, C., see T. Tsutsui 182 (1991) 143
- Adamowicz, L., Stable and metastable photoexcitations of linear  $C_6^-$ . Theoretical study 182 (1991) 45
- Agmon, N., see S. Rabinovich 182 (1991) 336
- Albert, I.D.L. and S. Ramasesha, Role of  $\sigma$ - $\pi$  interactions on linear and nonlinear susceptibilities in polyenes 182 (1991) 351
- Almeida, M., see G. Zimmer 182 (1991) 673
- Amano, T. and F. Scappini, Millimeter-wave spectrum of rotationally excited  $H_2O$  182 (1991) 93
- Anastasi, C., M. Broomfield, O.J. Nielsen and P. Pagsberg, Ultraviolet absorption spectra and kinetics of  $CH_3S$  and  $CH_2SH$  radicals 182 (1991) 643
- Anderson, R.J.M., see L.R. Williams 182 (1991) 422
- Asher, R.L., see D.E. Lessen 182 (1991) 412
- Ashworth, S.H. and J.M. Brown, The electric dipole moments of  $SeH$  and  $GeH$  in their ground  $^2\Pi$  states 182 (1991) 73
- Balasubramanian, K., Enumeration of isomers of polysubstituted  $C_{60}$  and application to NMR 182 (1991) 257
- Balko, B.A., see R.E. Continetti 182 (1991) 400
- Balková, A., S.A. Kucharski and R.J. Bartlett, The multi-reference Hilbert space coupled-cluster study of the  $Li_2$  molecule. Application in a complete model space 182 (1991) 511
- Banet, M.J., see L.R. Williams 182 (1991) 422
- Bartlett, R.J., see J. Gauss 182 (1991) 207
- Bartlett, R.J., see A. Balková 182 (1991) 511
- Bässler, H., see A.I. Rudenko 182 (1991) 581
- Basu, S., see R. Dutta 182 (1991) 429
- Bäuerle, P., see N.S. Sariciftci 182 (1991) 326
- Bekerbauer, R., see H. Hsiung 182 (1991) 88
- Bernardinelli, G., see M. Geoffroy 182 (1991) 242
- Bernier, P., see G. Zimmer 182 (1991) 673
- Bernitz, M., see R. Neumann 182 (1991) 249
- Berry, R.S., see R.G. Daniel 182 (1991) 275
- Bethune, D.S., see L.J. Terminello 182 (1991) 491
- Bhabadyuti Sinha and S. Ramasesha, A theoretical study of spin excitations in [2,2]-paracyclophane skeleton substituted with two dicarbene units 182 (1991) 180
- Bilsel, O., J.W. Buchler, P. Hammerschmitt, J. Rodriguez and D. Holten, Electronic states and  $(\pi, \pi^*)$  absorption and emission characteristics of strongly coupled porphyrin dimers: sandwich complexes of  $Hf^{IV}$  and  $Zr^{IV}$  182 (1991) 415
- Boinovich, L.B., see A.M. Emel'yanenko 182 (1991) 463

- Bondarenko, E.A., E.T. Verkhovtseva, Yu.S. Doronin and A.M. Ratner, New emission continua of rare-gas clusters in the VUV region 182 (1991) 637
- Böttcher, R., see H. Metz 182 (1991) 132
- Boudot, D., see D. Canet 182 (1991) 541
- Broomfield, M., see C. Anastasi 182 (1991) 643
- Brouard, M., see F. Green 182 (1991) 568
- Brown, J.M., see S.H. Ashworth 182 (1991) 73
- Brucat, P.J., see D.E. Lessen 182 (1991) 412
- Brumm, M., G. Frenking and W. Koch, Theoretical challenge to the X-ray structure determination of dichloronitronium ion ("inorganic phosgene")  $\text{Cl}_2\text{NO}^+$  182 (1991) 310
- Buchler, J.W., see O. Bilsel 182 (1991) 415
- Buckingham, A.D., see S.A.C. McDowell 182 (1991) 551
- Burkhardt, A., U. Wedig, G. Scholz and D. Menz, The vapour-phase complex  $\text{AlF}_3(\text{HF})_2$ : an ab initio molecular orbital study 182 (1991) 556
- Buseck, P.R., see S. Wang 182 (1991) 1
- Busmann, H.-G., see G. Ulmer 182 (1991) 114
- Butler, L.J., Transition state spectroscopy and the UV absorption spectra of  $\text{H}_2\text{O}$  and  $\text{H}_2\text{S}$ : emission spectroscopy as a probe of dynamics along reactive trajectories which sample a resonance 182 (1991) 393
- Campbell, E.E.B., see G. Ulmer 182 (1991) 114
- Canet, D., P. Tekely, N. Mahieu and D. Boudot, Averaging effects in NMR spectroscopy by a radio-frequency field gradient: induced coherence transfers 182 (1991) 541
- Cattolica, R.J. and T.G. Mataga, Rotational-level-dependent quenching of  $\text{OH A}^2\Sigma(\nu' = 1)$  by collisions with  $\text{H}_2\text{O}$  in a low-pressure flame 182 (1991) 623
- Cencek, W., see T.-K. Ha 182 (1991) 519
- Chambron, J.-C. and J.-P. Sauvage,  $\text{Ru}(\text{bipy})_2\text{dppz}^{2+}$ : a highly sensitive luminescent probe for micellar sodium dodecyl sulfate solutions 182 (1991) 603
- Chowdhury, M., see R. Dutta 182 (1991) 429
- Chowdhury, P.K., see A. Kumar 182 (1991) 165
- Chronister, E.L. and R.A. Crowell, Time-resolved coherent Raman spectroscopy of low temperature molecular solids in a high pressure diamond anvil cell 182 (1991) 27
- Chu, S.-I., see I.M. Hammoud 182 (1991) 63
- Clarke, D.L., K.C. Thompson and R.G. Gilbert, Supercollision events in weak collisional energy transfer of highly excited species 182 (1991) 357
- Comes, F.J., see K. Mikulecky 182 (1991) 290
- Conceicao, J., see L.-S. Wang 182 (1991) 5
- Connell, L.L., see P.W. Joireman 182 (1991) 385
- Continetti, R.E., B.A. Balko and Y.T. Lee, Photodissociation of  $\text{H}_2\text{S}$  and the HS radical at 193.3 nm 182 (1991) 400
- Continetti, R.E., D.R. Cyr, R.B. Metz and D.M. Neumark, Fast beam studies of  $\text{N}_3$  photodissociation 182 (1991) 406
- Corneille, J.S., see M.-C. Wu 182 (1991) 472
- Crowell, R.A., see E.L. Chronister 182 (1991) 27
- Cyr, D.R., see R.E. Continetti 182 (1991) 406
- Czuchaj, E., F. Rebentrost, H. Stoll and H. Preuss, Pseudopotential SCF/CI calculation for the potential energy curves of the CaHe pair 182 (1991) 191

- Daniel, R.G., J.S. Keller, D. Pines and R.S. Berry, Photoelectrons from resonant ionization of Na<sub>2</sub>: angular and non-Franck-Condon energy distributions 182 (1991) 275
- David, D.E., see T.F. Magnera 182 (1991) 363
- Diehl, P., see P. Ingman 182 (1991) 253
- Dopheide, R., W.B. Gao and H. Zacharias, Direct measurements of collision-induced state-to-state rotational energy transfer rates in C<sub>2</sub>H<sub>2</sub> ( $\nu_2'' = 1$ ) 182 (1991) 21
- Doronin, Yu.S., see E.A. Bondarenko 182 (1991) 637
- Dunn, B., see M. Laberge 182 (1991) 159
- Dutta, R., S. Basu and M. Chowdhury, Magnetic-field effect on the diphenyl hexatriene-dimethyl aniline exciplex system: anisotropic effects in viscous media 182 (1991) 429
- Duxon, S.P., see F. Green 182 (1991) 568
- Eilmes, A. and P. Petelenz, Charge transfer induced local Frenkel exciton states in organic molecular crystals 182 (1991) 343
- Einarsson, L., see I. Furó 182 (1991) 547
- Emel'yanenko, A.M. and L.B. Boinovich, Contribution of image forces to the adsorption component of disjoining pressure in thin films of solutions with a polar solute 182 (1991) 463
- Enriquez, P.A., see F. Green 182 (1991) 568
- Erkoç, Ş., see Ş. Katircioğlu 182 (1991) 451
- Estrada, C.A., see M.-C. Wu 182 (1991) 472
- Felker, P.M., see P.W. Joireman 182 (1991) 385
- Flores, J.R., How to calculate orbitals as integrals over the exponential parameters: a new type of basis functions 182 (1991) 200
- Freed, K.F., see H. Grinberg 182 (1991) 297
- Freiberg, A., see K. Timpmann 182 (1991) 617
- Frenking, G., see M. Brumm 182 (1991) 310
- Fueki, K., see T. Miyazaki 182 (1991) 35
- Fujii, A. and N. Morita, Detection of nitrogen atoms produced by predissociation of superexcited Rydberg states of NO 182 (1991) 304
- Fukuda, K., see K. Sugawara 182 (1991) 466
- Furó, I., B. Halle and L. Einarsson, Methods for NMR studies of  $I > 1$  nuclei in anisotropic systems with small quadrupole splitting 182 (1991) 547
- Gao, W.B., see R. Dopheide 182 (1991) 21
- Gaudl, K.U., see N.S. Sariciftci 182 (1991) 326
- Gauss, J., W.J. Lauderdale, J.F. Stanton, J.D. Watts and R.J. Bartlett, Analytic energy gradients for open-shell coupled-cluster singles and doubles (CCSD) calculations using restricted open-shell Hartree-Fock (ROHF) reference functions 182 (1991) 207
- Geoffroy, M., G. Terron and G. Bernardinelli, Structure of a five-membered ring containing a phosphinyl radical: ab initio predictions and single-crystal EPR study 182 (1991) 242
- Gericke, K.-H., see K. Mikulecky 182 (1991) 290
- Gilbert, R.G., see D.L. Clarke 182 (1991) 357
- Gill, P.M.W., see R.H. Nobes 182 (1991) 216
- Godik, V.I., see K. Timpmann 182 (1991) 617
- Goodman, D.W., see M.-C. Wu 182 (1991) 472

- Gordon, R.D., J.M. Hollas, P.J.A. Ribeiro-Claro and J.J.C. Teixeira-Dias,  $\text{CF}_3$  torsional potentials and bending-torsion interaction in the  $S_0$  and  $S_1$  electronic states of 4-aminobenzotrifluoride 182 (1991) 649
- Gowda, D.C., see D.W. Urry 182 (1991) 101
- Green, F., G. Hancock, A.J. Orr-Ewing, M. Brouard, S.P. Duxon, P.A. Enriquez, R. Sayos and J.P. Simons, Measurements of vector correlations in bimolecular reactions by laser-pump and probe techniques 182 (1991) 568
- Grinberg, H., K.F. Freed and C.J. Williams, Influence of initial state bend-stretch couplings on product rotational distributions in photodissociation of bent triatomic molecules 182 (1991) 297
- Grubbs, W.T., see K. Ratanaphruks 182 (1991) 371
- Güdel, H.U., see H. Riesen 182 (1991) 271
- Ha, T.-K. and W. Cencek, Ab initio CI study of the optical rotatory strengths of HSSH 182 (1991) 519
- Halle, B., see I. Furó 182 (1991) 547
- Hammerschmitt, P., see O. Bilse 182 (1991) 415
- Hammoud, I.M. and S.-I. Chu, Irregular wave function behavior in diamagnetic Rydberg hydrogen atoms: a dynamical  $\text{SO}(4, 2)$  group study 182 (1991) 63
- Hancock, G., see F. Green 182 (1991) 568
- Hashimoto, K., see M. Hiramoto 182 (1991) 139
- Hayashi, H., see H. Okamoto 182 (1991) 96
- Hayes, L.C., see D.W. Urry 182 (1991) 101
- He, J.-W., see M.-C. Wu 182 (1991) 472
- Heath, J.R., A. Van Orden, E. Kuo and R.J. Saykally, The  $\nu_3$  band of  $\text{C}_7$  182 (1991) 17
- Helgaker, T., Transition-state optimizations by trust-region image minimization 182 (1991) 503
- Hertel, I.V., see G. Ulmer 182 (1991) 114
- Himpsel, F.J., see L.J. Terminello 182 (1991) 491
- Hiraku, T., see T. Miyazaki 182 (1991) 35
- Hiramoto, M., K. Hashimoto and T. Sakata, Mechanism of luminescence quenching of CdS single crystal by redox species: electric-field effect or electron-transfer quenching? 182 (1991) 139
- Hlaváčová, J. and P. Ševčík, A simulation of the Belousov-Zhabotinskii reaction with oxalic acid without bromine removal 182 (1991) 588
- Hodgson, A., J. Moryl and H. Zhao, Scattering of vibrationally excited  $\text{H}_2$  from  $\text{Cu}(111)$  182 (1991) 152
- Hollas, J.M., see R.D. Gordon 182 (1991) 649
- Holten, D., see O. Bilse 182 (1991) 415
- Hossain, S.A., see I. Miyagawa 182 (1991) 668
- Hsiung, H., J. Rodriguez-Parada and R. Bekerbauer, Optical second-harmonic generation in Langmuir-Blodgett multilayers of polyacrylates and polyoxazolines with fluorinated side groups 182 (1991) 88
- Hübner, H.-J., M. Wörner, W. Kaiser and A. Seilmeier, Subpicosecond vibrational relaxation of skeletal modes in polyatomic molecules 182 (1991) 315
- Huffman, D.R., see S.G. Kukolich 182 (1991) 263
- Hugerat, M., see R. Neumann 182 (1991) 249
- Ichihashi, M., see Y. Ozaki 182 (1991) 57
- Imai, Y., see K. Sugawara 182 (1991) 466

Ingman, P., J. Jokisaari, O. Pulkkinen, P. Diehl and O. Muenster, $^{21}\text{Ne}$ NMR spectroscopy: temperature dependence of the $^{21}\text{Ne}$ quadrupole coupling and electric field gradient in a liquid crystal	182 (1991) 253
Isoda, S., M. Maeda, H. Miyasaka and N. Mataga, Picosecond laser photolysis studies on the electron transfer and charge shift processes in flavin mononucleotide-cytochrome c-EDTA molecular organization	182 (1991) 379
Jakobsen, H.J., see L. Kellberg	182 (1991) 120
Jin, C., see L.-S. Wang	182 (1991) 5
Johnson, D.G., see F.J. Vergeldt	182 (1991) 107
Joireman, P.W., L.L. Connell, S.M. Ohline and P.M. Felker, Rotational coherence spectroscopy and structure of the perylene-benzene van der Waals complex	182 (1991) 385
Jokisaari, J., see P. Ingman	182 (1991) 253
Joppien, M., see J. Wörmer	182 (1991) 632
Kaiser, W., see H.-J. Hübner	182 (1991) 315
Kalinichenko, M.I. and V.A. Trofimov, The temperature and concentration waves in chemical gas reactions caused by optical radiation	182 (1991) 347
Kameyama, T., see K. Sugawara	182 (1991) 466
Katircioğlu, Ş. and Ş. Erkoç, Structural stability and energetics of As, Sb and Bi micro-clusters: empirical many-body potential energy function calculation	182 (1991) 451
Kellberg, L., M. Linsten and H.J. Jakobsen, $^{27}\text{Al}\{^1\text{H}\}$ cross-polarization and ultrahigh-speed $^{27}\text{Al}$ MAS NMR spectroscopy in the characterization of USY zeolites	182 (1991) 120
Keller, J.S., see R.G. Daniel	182 (1991) 275
Kharkats, Y.I. and J. Ulstrup, Resonance effects in three-centre long-range electron transfer	182 (1991) 81
Kittaka, C., see S. Suzuki	182 (1991) 12
Klinowski, J., see J. Rocha	182 (1991) 531
Knee, J.L., see C. Lakshminarayan	182 (1991) 656
Kobayashi, Y., Chemical reaction of positronium with nitrobenzene and <i>p</i> -dinitrobenzene in mixtures of methanol and sodium iodide	182 (1991) 440
Koch, W., see M. Brumm	182 (1991) 310
Koehorst, R.B.M., see F.J. Vergeldt	182 (1991) 107
Koga, Y., see K. Sugawara	182 (1991) 466
Koishi, M., see T. Tsutsui	182 (1991) 143
Kolbert, A.C., see N.S. Sariciftci	182 (1991) 326
Kolbert, A.C., see G. Zimmer	182 (1991) 673
Kolovsky, V.B., see G.A. Abakumov	182 (1991) 321
Kondow, T., see Y. Ozaki	182 (1991) 57
Kracjarski, D.T., see K.J. Willis	182 (1991) 614
Krausz, E., see H. Riesen	182 (1991) 266; 271
Kucharski, S.A., see A. Balková	182 (1991) 511
Kühnle, R., see G. Ulmer	182 (1991) 114
Kukulich, S.G. and D.R. Huffman, EPR spectra of $\text{C}_{60}$ anion and cation radicals	182 (1991) 263
Kumar, A., P.K. Chowdhury, K.V.S. Rama Rao and J.P. Mittal, Real-time observation of concerted benzene formation in the infrared multiphoton dissociation of 1,4-cyclohexadiene	182 (1991) 165
Kuo, E., see J.R. Heath	182 (1991) 17

- Laberge, M., D.J. Simkin and B. Dunn, Evidence for energy transfer between two distinct crystallographic europium sites in Eu(III)  $\beta$ "-alumina and between Eu(III) and Sm(III) in Co-doped  $\beta$ "-alumina 182 (1991) 159
- Lakshminarayan, C., J.M. Smith and J.L. Knee, Laser photoelectron spectroscopy of 1- and 2-naphthol: relative stability of the cis and trans cation rotamers 182 (1991) 656
- Lambry, J.-C., see F.J. Vergeldt 182 (1991) 107
- Landuyt, L., see M.T. Nguyen 182 (1991) 225
- Lapiano-Smith, D.A., see L.J. Terminello 182 (1991) 491
- Lauderdale, W.J., see J. Gauss 182 (1991) 207
- Lee, Y.T., see R.E. Continetti 182 (1991) 400
- Leone, S.R., see C.A. Taatjes 182 (1991) 39
- Lessen, D.E., R.L. Asher and P.J. Brucat, Threshold photodissociation of  $\text{Cr}_2^+$  182 (1991) 412
- Levanon, H., see R. Neumann 182 (1991) 249
- Levin, P.P. and P.K.N. Raghavan, Solvent effect on bell-shaped energy gap dependence for charge transfer triplet exciplexes 182 (1991) 663
- Li, L., see X. Zeng 182 (1991) 538
- Li, S., see X. Zeng 182 (1991) 538
- Linsten, M., see L. Kellberg 182 (1991) 120
- Liu, W., see X. Zeng 182 (1991) 538
- Liu, X., see J. Rocha 182 (1991) 531
- Liu, Z., see X. Zeng 182 (1991) 538
- Los, J., see J.M. Schins 182 (1991) 69
- Lovejoy, C.M., see C.A. Taatjes 182 (1991) 39
- Lu, D., see M.R. Morrow 182 (1991) 435
- MacPhail, R.A., see K. Ratanaphruks 182 (1991) 371
- Maeda, M., see S. Isoda 182 (1991) 379
- Magnera, T.F., D.E. David and J. Michl, The first twenty-eight gas-phase proton hydration energies 182 (1991) 363
- Mahieu, N., see D. Canet 182 (1991) 541
- Manohar, C., see K.I. Priyadarsini 182 (1991) 608
- Mårtensson, N., see A. Nilsson 182 (1991) 147
- Martin, J.-L., see F.J. Vergeldt 182 (1991) 107
- Mataga, N., see S. Isoda 182 (1991) 379
- Mataga, T.G., see R.J. Cattolica 182 (1991) 623
- Matsuura, H., see S. Suzuki 182 (1991) 12
- McDowell, S.A.C. and A.D. Buckingham, Isotope effects on the stability of the carbon monoxide-acetylene van der Waals molecule and the hydrogen fluoride dimer 182 (1991) 551
- Mehring, M., see N.S. Sariciftci 182 (1991) 326
- Mehring, M., see G. Zimmer 182 (1991) 673
- Meijer, G., see L.J. Terminello 182 (1991) 491
- Menz, D., see A. Burkhardt 182 (1991) 556
- Mercouris, Th., see I.D. Petsalakis 182 (1991) 561
- Metz, H., R. Böttcher and W. Windsch, ENDOR investigation of the polar structure of tris-sarcosine calcium chloride 182 (1991) 132
- Metz, R.B., see R.E. Continetti 182 (1991) 406
- Michaeli, S., see R. Neumann 182 (1991) 249



- Michl, J., see T.F. Magnera 182 (1991) 363
- Mikulecky, K., K.-H. Gericke and F.J. Comes, Decay dynamics of  $\text{H}_2\text{O}(^1\text{B}_1)$ : full characterization of OH product state distribution 182 (1991) 290
- Miller, W.H., see J.Z.H. Zhang 182 (1991) 283
- Mishra, B.K., see K.I. Priyadarsini 182 (1991) 608
- Mittal, J.P., see A. Kumar 182 (1991) 165
- Miyagawa, I., K. Sogabe and S.A. Hossain, ESR modulation-spectrum from a DPPH crystal 182 (1991) 668
- Miyasaka, H., see S. Isoda 182 (1991) 379
- Miyazaki, T., H. Morikita, K. Fueki and T. Hiraku, Trapping sites of hydrogen atoms in solid hydrogen at 4.2 K analyzed by ESR linewidths 182 (1991) 35
- Möller, T., see J. Wörmer 182 (1991) 632
- Moncrieff, D., see R.H. Nobes 182 (1991) 216
- Morikita, H., see T. Miyazaki 182 (1991) 35
- Morita, N., see A. Fujii 182 (1991) 304
- Moro, G.J., P.L. Nordio and A. Polimeno, Non-Kramers regimes in barrier crossings of bivariate diffusive systems 182 (1991) 575
- Morrow, M.R. and D. Lu, Universal behavior of lipid acyl chain order: chain length scaling 182 (1991) 435
- Moryl, J., see A. Hodgson 182 (1991) 152
- Muenster, O., see P. Ingman 182 (1991) 253
- Mylrajan, M., see T.K.K. Srinivasan 182 (1991) 175
- Nakanaga, T., see K. Sugawara 182 (1991) 466
- Natt, A., see R. Neumann 182 (1991) 249
- Neckel, A., see N.S. Sariciftci 182 (1991) 326
- Neugebauer, H., see N.S. Sariciftci 182 (1991) 326
- Neumann, R., M. Hugerat, S. Michaeli, A. Natt, M. Bernitz and H. Levanon, Controlled orientation of porphyrins by molecular design in thermotropic liquid crystals: a time-resolved EPR study 182 (1991) 249
- Neumark, D., see J.Z.H. Zhang 182 (1991) 283
- Neumark, D.M., see R.E. Continetti 182 (1991) 406
- Nguyen, M.T., L. Landuyt and L.G. Vanquickenborne, 1,3-hydrogen shift in propene radical cation: a facile antarafacial rearrangement 182 (1991) 225
- Nicolaides, C.A., see I.D. Petsalakis 182 (1991) 561
- Nielsen, O.J., see C. Anastasi 182 (1991) 643
- Nilsson, A. and N. Mårtensson, Core-level shake-up spectra from ordered C, N and O overlayers on Ni(100) 182 (1991) 147
- Nobes, R.H., D. Moncrieff, M.W. Wong, L. Radom, P.M.W. Gill and J.A. Pople, The structure and stability of the  $\text{O}_2^+$  dication: a dramatic failure of Möller-Plesset perturbation theory 182 (1991) 216
- Nordio, P.L., see G.J. Moro 182 (1991) 575
- Novikov, S.V. and A.V. Vannikov, Field dependence of charge mobility in polymer matrices 182 (1991) 598
- Ohline, S.M., see P.W. Joireman 182 (1991) 385
- Okamoto, H., H. Hayashi, K. Yoshihara and M. Tasumi, Femtosecond time-resolved coherent anti-Stokes Raman scattering from carotenoids in vivo and in vitro: comparison of vibrational relaxation times ( $T_2$ ) of the in-phase C=C stretching bands 182 (1991) 96
- Olsen, J., see D. Sundholm 182 (1991) 497

Opansky, B.J., see C.A. Taatjes	182 (1991) 39
Orr-Ewing, A.J., see F. Green	182 (1991) 568
Osato, K., see K. Sugawara	182 (1991) 466
Ozaki, Y., M. Ichihashi and T. Kondow, Analyses of breathing vibration of nearly spherical Ar clusters based on a dense sphere model	182 (1991) 57
Pagsberg, P., see C. Anastasi	182 (1991) 643
Paidarová, I., see J. Šavrdá	182 (1991) 524
Parenteau, L., see P. Rowntree	182 (1991) 479
Parker, T.M., see D.W. Urry	182 (1991) 101
Petelenz, P., see A. Eilmes	182 (1991) 343
Petsalakis, I.D., Th. Mercouris, G. Theodorakopoulos and C.A. Nicolaides, Theory and ab initio calculation of partial widths and interchannel coupling in predissociating diatomic states: application to HeF	182 (1991) 561
Pines, D., see R.G. Daniel	182 (1991) 275
Polimeno, A., see G.J. Moro	182 (1991) 575
Polyakov, B.I., see G.A. Abakumov	182 (1991) 321
Pople, J.A., see R.H. Nobes	182 (1991) 216
Preuss, H., see E. Czuchaj	182 (1991) 191
Priyadarsini, K.I., B.K. Mishra and C. Manohar, Direct energy transfer in charged micellar systems: a model	182 (1991) 608
Pulkkinen, O., see P. Ingman	182 (1991) 253
Rabinovich, S. and N. Agmon, Adiabatic elimination in multidimensional diffusive barrier crossing	182 (1991) 336
Rachdi, F., see G. Zimmer	182 (1991) 673
Radom, L., see R.H. Nobes	182 (1991) 216
Raff, L.M., see H.W. Schranz	182 (1991) 455
Raghavan, P.K.N., see P.P. Levin	182 (1991) 663
Raghunathan, P., Evidence for fractal dimension in asphaltene polymers from electron-spin-relaxation measurements	182 (1991) 331
Rakvin, B., S. Valić and Z. Veksli, Slow motions and intramolecular dynamics of nitroxide spin probe detected by the double-modulation ESR technique	182 (1991) 171
Rama Rao, K.V.S., see A. Kumar	182 (1991) 165
Ramasami, T., see V. Subramanian	182 (1991) 232
Ramasesha, S., see Bhabadyuti Sinha	182 (1991) 180
Ramasesha, S., see I.D.L. Albert	182 (1991) 351
Ratanaphrucks, K., W.T. Grubbs and R.A. MacPhail, cw stimulated Brillouin gain spectroscopy of liquids	182 (1991) 371
Ratner, A.M., see E.A. Bondarenko	182 (1991) 637
Rebentrost, F., see E. Czuchaj	182 (1991) 191
Ribeiro-Claro, P.J.A., see R.D. Gordon	182 (1991) 649
Riesen, H. and E. Krausz, Hole-burning and phosphorescence line-narrowing of the triplet $\pi\pi^*$ state in glassy matrices	182 (1991) 266
Riesen, H., E. Krausz, A. Zilian and H.U. Güdel, Hole-burning and resonant luminescence line-narrowing of $[\text{Rh}(\text{phpy})_2\text{bpy}]^+$ in glassy matrices	182 (1991) 271
Riley, M.J., Exploiting time-reversal symmetry in ligand-field calculations	182 (1991) 187



Rocha, J., X. Liu and J. Klinowski, Solid-state $^{27}\text{Al}$ NMR studies of $\text{AlPO}_4\cdot 8$	182 (1991) 531
Rodriguez, J., see O. Bilsel	182 (1991) 415
Rodriguez-Parada, J., see H. Hsiung	182 (1991) 88
Roduner, E., see M. Schwager	182 (1991) 445
Rowntree, P., L. Parenteau and L. Sanche, Energy and charge transfer at rare-gas surfaces via substrate excitation and core-excited resonances	182 (1991) 479
Rudenko, A.I. and H. Bässler, Spectral diffusion in random media: a master equation approach	182 (1991) 581
Saito, S., see T. Tsutsui	182 (1991) 143
Sakata, T., see M. Hiramoto	182 (1991) 139
Sanche, L., see P. Rowntree	182 (1991) 479
Sariciftci, N.S., A.C. Kolbert, M. Mehring, K.U. Gaudl, P. Bäuerle, H. Neugebauer and A. Neckel, Evidence for counterion complexation in the conducting state of viologen-functionalized poly(3-alkylthiophenes)	182 (1991) 326
Sauvage, J.-P., see J.-C. Chambron	182 (1991) 603
Šavrdá, J., J. Vojtík and I. Paidarová, Double-minimum $\text{B}^1\Sigma^+$ electronic state of BH: rovibrational dependence of the ab initio boron quadrupole coupling constant	182 (1991) 524
Saykally, R.J., see J.R. Heath	182 (1991) 17
Sayos, R., see F. Green	182 (1991) 568
Scappini, F., see T. Amano	182 (1991) 93
Schaafsma, T.J., see F.J. Vergeldt	182 (1991) 107
Schins, J.M., L.D.A. Siebbeles, W.J. van der Zande and J. Los, Direct observation of strong diabatic behavior in the $n=3$ $^3\Sigma_g^+$ states of molecular hydrogen	182 (1991) 69
Scholz, G., see A. Burkhardt	182 (1991) 556
Schranz, H.W., L.M. Raff and D.L. Thompson, Non-statistical effects in bond fission reactions of 1,2-difluoroethane	182 (1991) 455
Schwager, M. and E. Roduner, The influence of anisotropy and nuclear couplings on the magnetic quenching of positronium complexes	182 (1991) 445
Seilmeier, A., see H.-J. Hübner	182 (1991) 315
Ševčík, P., see J. Hlaváčová	182 (1991) 588
Shiromaru, H., see S. Suzuki	182 (1991) 12
Shuh, D.K., see L.J. Terminello	182 (1991) 491
Siebbeles, L.D.A., see J.M. Schins	182 (1991) 69
Simkin, D.J., see M. Laberge	182 (1991) 159
Simonov, A.P., see G.A. Abakumov	182 (1991) 321
Simons, J.P., see F. Green	182 (1991) 568
Skumanich, A., Optical absorption spectra of carbon 60 thin films from 0.4 to 6.2 eV	182 (1991) 486
Slanina, Z. and F. Uhlík, An estimation of dimerization energetics of the ClO radical	182 (1991) 51
Smalley, R.E., see L.-S. Wang	182 (1991) 5
Smirnov, K.S., A.A. Tsyganenko and B. Staudte, Infrared study of surface acidity of mildly hydrothermally dealuminated zeolites using the low-temperature adsorption of simple molecules	182 (1991) 127
Smith, J.M., see C. Lakshminarayan	182 (1991) 656
Sogabe, K., see I. Miyagawa	182 (1991) 668
Srinivasan, T.K.K. and M. Mylrajan, Structural phase transitions in dimethylammonium perchlorate	182 (1991) 175

- Stanton, J.F., see J. Gauss 182 (1991) 207
- Staudte, B., see K.S. Smirnov 182 (1991) 127
- Stöhr, J., see L.J. Terminello 182 (1991) 491
- Stoll, H., see E. Czuchaj 182 (1991) 191
- Subramanian, V., M. Vijayakumar and T. Ramasami, Ionization energy calculations of  $MCl_4$  (M = Zr and Hf)-type molecules by the MS X $\alpha$  method 182 (1991) 232
- Sugawara, K., T. Nakanaga, Y. Koga, H. Takeo, Y. Imai, A. Watanabe, K. Osato, T. Kameyama and K. Fukuda, Time-resolved study of CO elimination from  $Mo(CO)_6$  in  $SF_6$ -sensitized  $CO_2$  laser CVD process 182 (1991) 466
- Sundholm, D. and J. Olsen, Finite element MCHF calculations on excitation energies and the ionization potential of carbon 182 (1991) 497
- Suzuki, S., T. Wakabayashi, H. Matsuura, H. Shiromaru, C. Kittaka and Y. Achiba, Size selection and focusing of neutral carbon clusters 182 (1991) 12
- Szabo, A.G., see K.J. Willis 182 (1991) 614
- Taatjes, C.A., C.M. Lovejoy, B.J. Opansky and S.R. Leone, Laser double resonance measurements of the quenching rates of  $Br(^2P_{1/2})$  with  $H_2O$ ,  $D_2O$ ,  $HDO$ , and  $O_2$  182 (1991) 39
- Takeo, H., see K. Sugawara 182 (1991) 466
- Tasumi, M., see H. Okamoto 182 (1991) 96
- Teixeira-Dias, J.J.C., see R.D. Gordon 182 (1991) 649
- Tekely, P., see D. Canet 182 (1991) 541
- Terminello, L.J., D.K. Shuh, F.J. Himpsel, D.A. Lapiano-Smith, J. Stöhr, D.S. Bethune and G. Meijer, Unfilled orbitals of  $C_{60}$  and  $C_{70}$  from carbon K-shell X-ray absorption fine structure 182 (1991) 491
- Terron, G., see M. Geoffroy 182 (1991) 242
- Theodorakopoulos, G., see I.D. Petsalakis 182 (1991) 561
- Thompson, D.L., see H.W. Schranz 182 (1991) 455
- Thompson, K.C., see D.L. Clarke 182 (1991) 357
- Timpmann, K., A. Freiberg and V.I. Godik, Picosecond kinetics of light excitations in photosynthetic purple bacteria in the temperature range of 300–4 K 182 (1991) 617
- Torruellas, W.E., D. Neher, R. Zanon, G.I. Stegeman, F. Kajzar and M. Leclerc, Dispersion measurements of the third order nonlinear susceptibility of polythiophene thin film, *Chem. Phys. Letters* 175 (1990) 11. Erratum 182 (1991) 384
- Trofimov, V.A., see M.I. Kalinichenko 182 (1991) 347
- Tsutsui, T., C. Adachi, S. Saito, M. Watanabe and M. Koishi, Effect of confined radiation field on spontaneous-emission lifetime in vacuum-deposited fluorescent dye films 182 (1991) 143
- Tsyganenko, A.A., see K.S. Smirnov 182 (1991) 127
- Uhlik, F., see Z. Slanina 182 (1991) 51
- Ulmer, G., E.E.B. Campbell, R. Kühnle, H.-G. Busmann and I.V. Hertel, Laser mass spectroscopic investigations of purified, laboratory-produced  $C_{60}/C_{70}$  182 (1991) 114
- Ulstrup, J., see Y.I. Kharkats 182 (1991) 81
- Urry, D.W., L.C. Hayes, D.C. Gowda and T.M. Parker, Pressure effect on inverse temperature transitions: biological implications 182 (1991) 101
- Valić, S., see B. Rakvin 182 (1991) 171
- Van der Zande, W.J., see J.M. Schins 182 (1991) 69

Vannikov, A.V., see S.V. Novikov	182 (1991) 598
Van Orden, A., see J.R. Heath	182 (1991) 17
Vanquickenborne, L.G., see M.T. Nguyen	182 (1991) 225
Veksli, Z., see B. Rakvin	182 (1991) 171
Vergeldt, F.J., R.B.M. Koehorst, T.J. Schaafsma, J.-C. Lambry, J.-L. Martin, D.G. Johnson and M.R. Wasielewski, Sub-picosecond photoinduced electron transfer in water-soluble porphyrin dimers	182 (1991) 107
Verkhovtseva, E.T., see E.A. Bondarenko	182 (1991) 637
Vijayakumar, M., see V. Subramanian	182 (1991) 232
Vlad, M.O., A renormalization group transformation for branched-chain processes	182 (1991) 595
Vojtik, J., see J. Šavrdá	182 (1991) 524
Wakabayashi, T., see S. Suzuki	182 (1991) 12
Wallqvist, A., Molecular dynamics study of hydrophobic aggregation in water/methane/methanol systems	182 (1991) 237
Wang, L.-S., J. Conceicao, C. Jin and R.E. Smalley, Threshold photodetachment of cold $C_{60}^-$	182 (1991) 5
Wang, S. and P.R. Buseck, Packing of $C_{60}$ molecules and related fullerenes in crystals: a direct view	182 (1991) 1
Wasielewski, M.R., see F.J. Vergeldt	182 (1991) 107
Watanabe, A., see K. Sugawara	182 (1991) 466
Watanabe, M., see T. Tsutsui	182 (1991) 143
Watts, J.D., see J. Gauss	182 (1991) 207
Weaver, A., see J.Z.H. Zhang	182 (1991) 283
Wedig, U., see A. Burkhardt	182 (1991) 556
Williams, C.J., see H. Grinberg	182 (1991) 297
Williams, L.R., R.J.M. Anderson and M.J. Banet, Time-resolved ultrafast spectroscopy of coherent optical phonons and charge carriers in tetragonal mercuric iodide	182 (1991) 422
Willis, K.J., A.G. Szabo and D.T. Kracjarski, Excited-state reaction and the origin of the biexponential fluorescence decay of tryptophan zwitterion	182 (1991) 614
Windsch, W., see H. Metz	182 (1991) 132
Wong, M.W., see R.H. Nobes	182 (1991) 216
Wörmer, J., M. Joppien and T. Möller, Mass determination of free van der Waals clusters from absorption and scattering measurements	182 (1991) 632
Wörner, M., see H.-J. Hübner	182 (1991) 315
Wu, C., see X. Zeng	182 (1991) 538
Wu, M.-C., J.S. Corneille, C.A. Estrada, J.-W. He and D.W. Goodman, Synthesis and characterization of ultra-thin MgO films on Mo(100)	182 (1991) 472
Yoshihara, K., see H. Okamoto	182 (1991) 96
Zacharias, H., see R. Dopheide	182 (1991) 21
Zeng, X., C. Wu, M. Zhao, S. Li, L. Li, X. Zhang, Z. Liu and W. Liu, Laser-enhanced low-pressure gas NMR signal from $^{129}\text{Xe}$	182 (1991) 538
Zhang, J.Z.H., W.H. Miller, A. Weaver and D. Neumark, Quantum reactive scattering calculations of Franck-Condon factors for the photodetachment of $\text{H}_2\text{F}^-$ and $\text{D}_2\text{F}^-$ and comparisons with experiment	182 (1991) 283

Zhang, X., see X. Zeng	182 (1991) 538
Zhao, H., see A. Hodgson	182 (1991) 152
Zhao, M., see X. Zeng	182 (1991) 538
Zilian, A., see H. Riesen	182 (1991) 271
Zimmer, G., A.C. Kolbert, F. Rachdi, P. Bernier, M. Almeida and M. Mehring, An EPR crystallographic study of the organic conductor DMTM(TCNQ) <sub>2</sub>	182 (1991) 673

